



# MC3200

## Wireless LAN Controller

### End-to-end control over the wireless LAN for your medium enterprise

The MC3200 hardware controller optimizes wireless traffic across all access points and client devices to provide superior performance, reliability, and predictability in your wireless LAN. Powered by the System Director operating system, it allows you to easily control your wireless network while meeting mission-critical demands for wireless connectivity. It intelligently manages each device's connection, pooling and allocating network resources to flawlessly support a broad range of applications – including high-bandwidth applications like voice and video. The MC3200 supports the Service Assurance Application Suite to extend control and visibility over your Meru wireless LAN. It can be deployed as a physical hardware appliance or as a virtual appliance operating in a VMware environment.

Features	Benefits
<ul style="list-style-type: none"> <li>Powered by System Director operating system to govern all traffic on the wireless LAN</li> <li>Airtime Fairness® allocates equal time to ensure that all traffic operates at its maximum speed</li> <li>Seamless integration with existing infrastructure, with support for diverse applications</li> <li>Single channel architecture with ability to layer additional channels in the same physical space</li> <li>Multilayered security: encryption, 802.1X authentication, firewall, rogue detection/suppression, and wireless IPS/IDS</li> </ul>	<ul style="list-style-type: none"> <li>Controls and optimizes wireless traffic across access points and client devices</li> <li>Simultaneously supports multiple high-bandwidth, resource-intensive applications, including voice and video</li> <li>Delivers superior performance, scalability, and flexibility</li> <li>Eliminates co-channel interference and the need for channel planning while enabling easy capacity expansion</li> <li>Protects sensitive data and aids in compliance</li> </ul>

<b>APPLICATION:</b> <ul style="list-style-type: none"> <li>Medium enterprises</li> <li>Branch offices</li> </ul>	<b>CAPACITY:</b> 200 access points	<b>CONNECTIVITY:</b> 4 10/100/1000 Base-T Ethernet
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# MC3200

## TECHNICAL SPECIFICATIONS

### APPLICATION SUPPORT AND OVER-THE-AIR QoS

#### SIP and H.323 support

Dynamic out-of-the-box support for SIP and H.323 applications and codecs

#### QoS

Configurable QoS rules for SIP, H.323, Ascom, Avaya, Microsoft, Polycom, Siemens, and ShoreTel  
User-configurable static and dynamic QoS rules per application (user-defined) and per user (stations, users, and port numbers)  
Call admissions control and call load balancing  
WMM support  
WMM rate adaptation, optimized based on real-time network conditions

### SECURITY

#### Authentication

Combination of captive portal, 802.1X, and open authentication  
Advanced security using WPA2  
802.1X with EAP-Transport Layer Security (EAP-TLS), Tunneled TLS (EAP-TTLS), Protected EAP (PEAP), MS-CHAPv2, Smartcard/Certificate, Lightweight EAP (LEAP), EAP-FAST, and EAP-MD5, with mutual authentication and dynamic per-user, per-session unicast and broadcast keys  
Secure HTTPS with customizable captive portal utilizing RADIUS

#### Encryption Support

Static and dynamic 40-bit and 128-bit WEP keys, TKIP with MIC, AES, SSL, TLS

#### Security Policy

Radius-assisted, per-user and per-ESSID access control via MAC filtering  
Multiple ESSID/BSSID, each with flexibility of separate and shared security policy

#### Rogue Detection and Suppression

All controllers have the intelligence to identify and classify rogue devices in 802.11n, 802.11a, and 802.11b/g

#### Security Firewall

System-configured or per-user, RADIUS-configured firewall policy  
Per-user firewall with fine-grained policy management: admission control, packet prioritization, QoS flows, packet drop policy, bandwidth scaling, filter ID, network protocol, and source port filtering

### MOBILITY

#### Zero-Loss Handoffs

Infrastructure-controlled, zero-loss handoff mechanism for standard Wi-Fi clients

#### Virtual Cell Load Balancing

Virtual Cell provides load balancing coordination for improved performance and WLAN resiliency upon AP failure

### CENTRALIZED MANAGEMENT

#### Zero Configuration

Automatically selects power and channel settings  
Access points automatically discover controllers and download configuration settings  
Zero-touch, plug-and-play deployments

#### System Management

Centralized and remote management and software upgrades via System Director web-based GUI, SNMP, command-line interface (CLI) via serial port, SSH, Telnet, centrally managed via E(z)RF™ Network Manager  
Centralized security policy for WLAN, multiple ESSIDs, and VLANs with their own administrative/security policies

#### Intelligent RF Management

Coordination of access points with load balancing for predictable performance  
Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs  
Co-channel interference management

### WIRED/WIRELESS SUPPORT

#### Wireless Compliance

IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM

#### Automatic Discovery & Configuration

All Meru access points

#### Wired/Switching

IEEE 802.1Q VLAN tagging, GRE Tunneling, and IEEE 802.1D Spanning Tree Protocol

### PHYSICAL SPECIFICATIONS

#### Dimensions

16.97" width x 1.74" height x 16.49" depth  
(43.1 cm width x 4.45 cm height x 41.88 cm depth)

#### Weight

13.4 lbs / 6.1 kgs (without packaging)  
22.4 lbs / 10.2 kgs (with packaging)

#### Power

Single 270W PSU

#### Environmental

Operating temperature: 0° to 40° C (32° F to 104° F)  
Operating humidity: 95% at 40° C (104° F)  
Storage temperature: -40° to 85° C (-40° F to 185° F)  
Storage humidity: 95% at 40° C (104° F)

#### Interfaces

4 10/100/1000 Base-T Ethernet  
RJ45 console port  
2 x USB port  
Power on/off switch  
Ethernet port status lights (LED) for link/activity/speed

#### Access Point and Client Support

200 APs and 2,000 Wi-Fi clients

#### Mounting

1U rack mount

#### Standard Warranty

1 year

### Certifications

RoHS Compliant  
Wi-Fi Certified a/b/g/n



### Safety Standards

UL 60950-1  
IEC 60950-1

### EMC

FCC Part 15/ICES-003 Class A  
VCCI Class A – Japan  
EN 55022 Class A – Europe  
EN 55024 – Europe  
EN60601-1 – Europe  
EN60601-1-2 – Europe  
KCC – Korea

### Part Numbers

MC3200 Wireless Controller with zero access point licenses  
MC3200-50 Wireless Controller with 50 AP licenses  
MC3200-PEF Policy Enforcement Module for MC3200 Controller  
MC3200RN-1-MAX Software module to upgrade N+1 slave wireless controller for N=1 only  
MC3200RN-5-MAX Software module to upgrade N+1 slave wireless controller for N<=5

### Other Controllers from Meru:

#### MC1500

Small-to-medium enterprises and remote offices  
30 access points

#### MC4200

Large enterprises and regional offices  
500 access points

#### MC5000

Large enterprises, headquarters, large campuses  
1,500 access points

**Meru** delivers an all-wireless network that fully supports the enterprise, delivering a consistent, interactive experience for all users. No matter what applications they are running. No matter how many other users are on the network.



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